

**Table S2 Spore viability of *SLX4*-related mutants**

Strain	Tetrad type <sup>a</sup>					Total#	Viability (%)	<i>P</i> value <sup>b</sup>
	4-sv	3-sv	2-sv	1-sv	0-sv			
Wild type	1134	163	39	2	3	1341	95.2	
<i>slx4</i> Δ	1414	203	40	3	22	1682	94.4	0.99
<i>slx1</i> Δ	1242	91	21	5	3	1362	97.1	0.99
<i>Rad1</i> Δ	1289	293	103	19	14	1724	90.8	0.98
<i>rtt107</i> Δ	1192	106	33	2	2	1192	96.5	0.99

<sup>a</sup> sv: spore viable in tetrad

<sup>a</sup>Statistical differences in the distribution of tetrad type as compared with that in wild type were calculated using the chi-square test.